

Claims: What is claimed:

58. A method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present comprising the steps of,

providing a vehicular headlight system adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors,

providing a vehicle sensor for sensing where said first sensed vehicle is present,

providing at least one controlled light modulator within said vehicular headlight system,

providing a controller which uses input from said vehicle sensor to control said at least one controlled light modulator within said vehicular headlight system,

whereby said controller causes said at least one controlled light modulator to direct a lower intensity illumination toward a sector where said first sensed vehicle's presence is sensed and

whereby said vehicular headlight system concurrently directs higher intensity illumination toward at least one sector to the right side of said sensed vehicle and directs higher intensity illumination toward at least one sector to the left side of said sensed vehicle.

59. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 58 wherein said vehicle sensor senses a second sensed vehicle and said controller causes said vehicular headlight system to direct low intensity illumination towards said second sensed vehicle while concurrently directing high intensity illumination between said first sensed vehicle and said second sensed vehicle.

60. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 58 wherein said at least one controlled light modulator within said

vehicular headlight system comprises at least one element selected from the group consisting of; illumination emitter, illumination filter, and illumination steerer.

61. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 58 wherein a first plurality of independently controlled light modulators are provided within said vehicular headlight system which are individually controlled to each direct a lower intensity illumination toward said first sensed vehicle.

62. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 61 wherein a second plurality of independently controlled light modulators are provided within said vehicular headlight system which are controlled to each direct a higher intensity illumination toward the right side of said sensed vehicle and concurrently a third plurality of independently controlled light modulators are provided within said vehicular headlight system which are controlled to each direct a higher intensity illumination toward the left side of said sensed vehicle.

63. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 61 wherein said first plurality of independently controlled light modulators within said vehicular headlight system comprises at least one element selected from the group consisting of; illumination emitter, illumination filter, and illumination steerer.

64. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 61 wherein at least one headlight is provided and wherein said first

plurality of independently controlled light modulators within said vehicular headlight system are within said headlight.

65. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 58 wherein a first headlight comprising at least two illumination filtering elements is provided and each of said filtering elements are individually controllable with regard to the selection of what intensity of illumination incident thereon, is passed coherently therethrough.

66. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 58 wherein a first headlight comprising at least two illumination steering elements is provided and each of said steering elements are individually controllable with regard to the selection of which direction to steer at least a portion of the illumination incident thereon.

67. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 58 wherein a first headlight comprising at least two illumination emitting elements is provided and each of said illumination emitting elements are individually controllable with regard to the selection of which intensity of illumination is emitted therefrom.

68. A vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors comprising,
a first vehicle headlight,

a vehicle sensor for sensing where a first sensed vehicle is present,
at least one controlled light modulator within said vehicle headlight,
a controller which uses input from said vehicle sensor to control said at least one controlled light modulator within said vehicle headlight,
whereby said controller causes said at least one controlled light modulator to direct a lower intensity illumination toward a sector where said first sensed vehicle's presence is sensed and
whereby said vehicular headlight system concurrently directs higher intensity illumination toward at least one sector to the right side of said sensed vehicle and directs higher intensity illumination toward at least one sector to the left side of said sensed vehicle.

69. The vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors of claim 68 wherein said vehicle sensor senses a second sensed vehicle and said controller causes said vehicular headlight system to direct low intensity illumination towards said second sensed vehicle while concurrently directing high intensity illumination between said first sensed vehicle and said second sensed vehicle.

70. The vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors of claim 68 wherein said at least one controlled light modulator within said vehicular headlight system comprises at least one element selected from the group consisting of; illumination emitter, illumination filter, and illumination steerer.

71. The vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors of claim 68 comprising a first plurality of independently controlled light modulators within said vehicular headlight system which are individually controlled to each direct a lower intensity illumination toward said first sensed vehicle.

72. The vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors of claim 71 comprising a second plurality of independently controlled light modulators within said vehicular headlight system which are controlled to each direct a higher intensity illumination toward the right side of said sensed vehicle and comprising a third plurality of independently controlled light modulators within said vehicular headlight system which are controlled to each direct a higher intensity illumination toward the left side of said sensed vehicle.

73. The vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors of claim 71 wherein said first plurality of independently controlled light modulators within said vehicular headlight system comprises at least one element selected from the group consisting of; illumination emitter, illumination filter, and illumination steerer.

74. The vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors of claim 71 wherein said first plurality of independently controlled light modulators within said vehicular headlight system are within a single headlight.

75. The vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors of claim 68 wherein said vehicular headlight system comprises at least one headlight which contains at least two illumination filter elements, each of said filter elements being individually controllable with regard to the selection of what intensity of illumination incident thereon, is passed coherently therethrough.

76. The vehicle headlight illumination apparatus adapted to direct at least two distinct illumination intensities toward each of a plurality of individually controlled illumination sectors of claim 68 wherein said vehicular headlight system comprises at least one headlight which contains at least two illumination steering elements, each of said steering elements being individually controllable with regard to the selection of which direction to steer at least a portion of the illumination incident thereon.

77. The method of producing concurrent higher intensity illumination sectors where no vehicles are present and at least one lower intensity illumination sector where a first sensed vehicle is present of claim 68 wherein said vehicular headlight system comprises at least one headlight which contains at least two illumination emitting elements and each of said illumination emitting elements are individually controllable with regard to the selection of which intensity of illumination is emitted therefrom.